

ANISIMOV, V.Ye. kandidat meditsinskikh nauk (Kazan')

Dynamic cholinesterase activity and choline content in various forms of atherosclerosis. Klin.med. 35 no.6:46-51 Je '57. (MLRA 10:8)

1. Iz kafedry fakul'tetskoy terapii (zav. - zasluzhennyy deyatel' nauki Tatarskoy ASSR prof. Z.I.Walkin) Kazanskogo meditsinskogo instituta

(ARTERIOSCLEROSIS, metab.

cholinesterase activity and choline content)

(CHOLINESTERASE, in various dis.
arteriosclerosis)

(CHOLINE, determ.
in arteriosclerosis)

EXCERPTA MEDICA Sec 2 Vol 12/6 Physiology June 59

2118. CHOLINE, CHOLESTEROL AND CHOLINESTERASE CHANGES IN THE
BLOOD OF ATHEROSCLEROTICS (Russian text) - Anisimov V. E. -
TERAP. ARKH. 1958, 30/1 (14-19) Tables 2

In patients with atherosclerosis hospitalized for various cardiovascular complications the concentration of free choline and the ratio of choline to cholesterol in the blood were lowered in the majority of cases. Generally, the blood choline level is more labile in such patients than in normal subjects; this fluctuation of choline level was found to be paralleled by changes in cholinesterase activity in only 11 of the 35 cases.
Župančič - Ljubljana (II, 18)

USSR/Human and Animal Physiology - Metabolism, Ferments.

T-1

Abs Jour : Ref Zhur - Biol., No 18, 1958, 83954

Author : Anisimov, V.Ye.

Inst :

Title : Effects of Vitamin E upon the Cholinesterase Blood Activity in Atherosclerosis Patients.

Orig Pub : Khlinich. meditsina, 1958, 36, No. 1, 147-148.

Abstract : Out of 20 atherosclerosis patients, 14 presented findings of normal cholinesterase activity (CA); in 4, CA was somewhat intensified, and in 2, it was lowered. As vitamin E (50 mg daily) was included into the complex treatment, in the majority of the patients (12) CA of the blood became increased (more or less significantly). The remaining patients did not show any substantial CA changes. The author ascribes the beneficial effects of vitamin E upon the blood's CA to the fact that vitamin E influences the function of the liver. It also favorably affects the vegetative nervous system.

Card 1/1

ANISIMOV, V.Ye., kand.med.nauk; BEREZOVSKIY, B.S., assistant

Clinical aspects and therapy of erythromyelosis. Kaz.med.zhur.
40 no.3:60-63 My-Je '59. (MIRA 12:11)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - prof.Z.I.
Malkin) Kazanskogo meditsinskogo instituta.
(HEMOPOIETIC SYSTEM--DISEASES)

ANISIMOV, V.Ye. (Kazan'); BEREZOVSKIY, B.S. (Kazan'); SHCHERBATENKO,
S.I. (Kazan')

Second Volga Valley Conference of Therapentists. Kaz.med.zhur.
40 no.5:102-104 S-0 '59. (MIRA 13:7)
(THERAPEUTICS)

ANISIMOV, V.Ye., dotsent; BEREZOVSKIY, B.S., assistant

Influence of vitamin E on the course of atherosclerosis and hypertension.
Kaz.med.zhur. no.5:27-28 S-O '60. (MIRA 13:11)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. Z.I.Malkin)
Kazanskogo meditsinskogo instituta.

(VITAMINS--E)
(ARTERIOSCLEROSIS)
(HYPERTENSION)

ANISIMOV, V.Ye., kand.med.nauk

Role of choline in atherosclerosis. Kaz.med.zhur. 41 no.1:109-
112 Ja-F '60. (MIRA 13:6)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. Z.I. Malkin)
Kazanskogo meditsinskogo instituta.
(CHOLINE) (ARTERIOSCLEROSIS)

ANISIMOV, V.Ye., dotsent (Kazan')

Problem of hormone therapy at the All-Russian Conference of Therapuetists.
Kaz. med. zhur. no.6:80-82 N-D '60. (MIRA 13:12)
(HORMONE THERAPY—CONGRESSES)

ANISIMOV, V.Ye.

Effect of a low-salt diet with restricted fats on the dynamics of
lipoproteins in the blood serum of patients with atherosclerosis.
Vop. pit. 19 no.2:18-22 Mr-Apr '60. (MIRA 14:7)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. Z.I.Malkin) Kazan-
skogo meditsinskogo instituta.

(ARTERIOSCLEROSIS) (LIPOPROTEINS)
(DIET IN DISEASE)

ANISIMOV, V.Ye., kand.med.nauk; YERSHOVA, Ye.I.

Effect of a hypochloride diet with vegetable fat on the level of cholesterol, lipoprotein, and protein fractions in the blood serum of patients with arteriosclerosis. Sov.med. 24 no.11:61-64 N '60.

(MIRA 14:3)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. Z.I.Malkin) Kazanskogo meditsinskogo instituta.

(ARTERIOSCLEROSIS)

(LIPOPROTEINS)

(CHOLESTEROL)

(BLOOD PROTEINS)

ANISIMOV, V.Ye., dotsent; AKHMEROV, S.F. (Kazan')

Determination of glycoproteins and sialic acid in the blood serum
in ~~coronary~~ sclerosis and myocardial infarct. Klin.med. no.1:
62-66 '62. (MIRA 15:1)

1. Iz kafedry fakul'tetskoy terapii (zav. - zasluzhennyy deyatel'
nauki Tatarskoy ASSR prof. Z.I. Malkin) Kazanskogo meditsinskogo
instituta.

(CORONARY HEART DISEASE)	(HEART—INFARCTION)
(NEURAMINIC ACID)	(GLYCOPROTEINS)

ANISIMOV, V.Ye. (Kazan'); KRASNOPEROV, F.T. (Kazan')

Microfocal myocardial infarcts and chronic hepatitis at the expanded
plenum of the board of the All-Russian Society of Theraputists;
January 21-22, 1962 in Moscow. Kaz.med.zhur. no.3:95-97 My-Je '62.
(MIRA 15:9)

(HEART--INFARCTION) (LIVER--DISEASES)

ANISIMOV, V.Ye., kand.med.nauk

Scientific activity of S.S.Zimnitskii during the Russo
Japanese war of 1904-1905. Kaz.med.zhur. no.1:83-84
Ja-F'63. (MIA 16:8)

1. Kafedra fakul'tetskoy terapii (zav. - prof. Z.I.Malkin)
Kazanskogo meditsinskogo instituta.
(ZIMNITSKII, SEMEN SEMENOVICH, 1873 - 1927)
(RUSSO-JAPANESE WAR, 1904-1905--MEDICAL AND SANITARY AFFAIRS)

ANISIMOV, V.Ye., dotsent

Vitamin B-15 (pangamic acid) and its clinical use. Kaz.med.
zhur. no.5:93-96 S-0'63 (MIRA 16:12)

1. Kafedra fakul'tetskoy terapii (zav. - prof. Z.I.Malkin)
Kazanskogo meditsinskogo instituta.

ANISIMOV, V.Ye., kand.med.nauk (Kazan')

K.S. Diakonov's discovery of the lecithin-choline relation.
Kaz. med. zhur. no.1:90-92 Ja-F'61 (MIRA 16:11)

*

L 59116 65 RT(c)/RT(j)/RT(s) PC-1/Pr-1 RM
 ACCESSION NO. AR5015971 UR/0058/65/000/005/0010/0010
 SOURCE: Ref. zh. Fizika, Abs. 5066
 AUTHOR: Anisimov, V. Ye.
 TITLE: Electric field at the surface of a long cylindrical probe located in a methane flame
 CITED SOURCE: Tr. Leningr. in-t aviats. priborostr., vyp. 43, 1964, 92-96
 TOPIC TAGS: methane flame, cylindrical probe, electrical potential, space charge, electric field intensity
 TRANSLATION: The author obtains the distribution of the electric potential on the surface of a long cylindrical probe located in a flame of methane-air mixture. The thickness of the space-charge ions and the average intensity of the electric field in the zone are calculated.
 SUB CODE: PP, ME ENCL. 00
 Card 1/1

1-61331-65 EWT(m)/EPT(a)/EPT(a) Po-4/Pr-4 RM

ACCESSION NR: 0AR5015976

U1 8/65/000/005/0010/0010

SOURCE: Ref. zh. fizika, Abs. 506

AUTHOR: Anisimov, V. Ye.

TITLE: Wall electric potential of a probe in a methane flame

CITED SOURCE: Tr. Leningr. in-t. svyazn. priborostr., vyp. 43, 1964, 88-91

TOPIC TAGS: electric potential, wall potential, methane flame, probe measurement, voltage current characteristic, ion gas

TRANSLATION: It is established that the ionic gas of a methane flame can be regarded as an ideal gas. An expression is obtained on this basis for the wall electric potential of a probe located in a methane flame. The expression obtained can be used to interpret the probe voltage-current characteristics of a flame.

SUB CODE: FF, ME

ENCL: 00

Card 1/1

ANISIMOV, V.Ye.; BLINOV, V.I.; REUTT, V.Ch.

Relation between the rate of burning of a liquid and its surface temperature. Inzh.-fiz. zhur. 6 no.8:45-51 Ag '63. (MIRA 16:10)

1. Severo-zapadnyy zaochnyy politekhnicheskyy institut, Leningrad.

L 13823-63

RPT(a)/EWT(a)/BDS AFPTC/ARPC PR-4 MN

ACCESSION NR: AP3004739

8/0170/63/006/008/0045/0051

59
58

AUTHOR: Anisimov, V. Ye.; Blinov, V. I.; Reutt, V. Ch.

TITLE: Dependence of burning rate of a liquid on the temperature of its surface

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 6, no. 8, 1963, 45-51

TOPIC TAGS: liquid combustible, burning rate, liquid burner, liquid surface temperature

ABSTRACT: The dependence of the burning rate of a liquid combustible on its surface temperature was studied with the following experimental arrangements: 1) glass burners 5, 10, and 23 mm in diameter in which ethanol, butanol, gasoline, or kerosene were burned at various heights of the liquid level to yield plots of the flame height and distance of the liquid level from the burner outlet versus surface temperature; 2) quartz burner 29.5 mm in diameter provided with a water-cooled copper cylinder for cooling the surface of the liquid; 3) glass, steel, and brass burners of various diameters; and 4) cylindrical and rectangular open containers in which copper tubes for cooling were mounted 2 mm below the liquid surface. The study showed that the burning rate decreases gradually as the surface

Card 1/2

L 13823-63

ACCESSION NR: AP3004759

temperature is lowered. The burning rate is controlled mainly by the diffusion of vapors through the boundary layer. Correlation of the experimental data by earlier derived formulas is discussed. Orig. art. has: 4 figures.

ASSOCIATION: Severo-zapadny*y zaochny*y politekhnicheskiy institut, Leningrad
(Northwestern Correspondence Polytechnic Institute)

SUBMITTED: 14Dec62

DATE ACQ: 27Aug63

ENCL: 00

SUB CODE: PR

NO REF SOV: 003

OTHER: 000

Card 2/2

L 01237-67
 ACC NR: AP6015030 (A) SOURCE CODE: UR/0144/66/000/004/0416/0419

AUTHOR: Anisimov, Ya. F.

ORG: none

TITLE: Higher current density in the brush contact of electrical machinery

SOURCE: IVUZ. Elektromekhanika, no. 4, 1966, 416-419

TOPIC TAGS: electric machine, dc machine, commutation, *current density, electric machine, dc discharge*

ABSTRACT: The results are reported of an experimental study of current distribution among 12 parallel-connected brushes of a VT-115-230 d-c exciter (exciting a 25-Mw turbogenerator at the Gor'kiy Regional Power Plant). The study was conducted by the Electrocarbon Branch of VNIEM. Individual currents were measured, and current densities estimated for all brushes. It was found that, with higher average current densities, the inequality of current distribution among the paralleled brushes decreases. From the viewpoint of equal current distribution, an average current density of 15 amp/cm² can be recommended. Orig. art. has: 1 figure and 2 tables.

SUB CODE: 09 / SUBM DATE: 22Nov63 / ORIG REF: 003 / OTH REF: 001

Cord 1/1 *LC* UDC: 621.313 + 621.3.022

PHASE I BOOK EXPLOITATION

80V/3446

Anisimov, Yefim Georgiyevich

Proyektirovaniye stanochnykh prispособleniy v seriynom proizvodstve (Design of Machine-Tool Fixtures in Serial Production), Moscow, Mashgiz, 1959.
165 p. 6,000 copies printed.

Reviewer: I.Ya. Shnayderman, Candidate of Technical Sciences; Ed.: N.P. Onishchenko; Tech.Ed.: Ya.V. Rudenskiy; Chief Ed. (Southern Division, Mashgiz): V.K.Serdyuk, Engineer.

PURPOSE: This book is intended for designers and technicians in machine-building plants.

COVERAGE: This book discusses problems in designing fixtures and rapid actuators in large lot production. Classification of machined parts and of elements of fixtures is presented. Information on designing fixtures is provided. The interrelation between the elements of the fixture, workpiece, and the tool is given particular attention. No personalities are mentioned. There are 8 Soviet references.

Card 1/5

Design of Machine-Tool Fixtures (Cont.)

80V/3446

TABLE OF CONTENTS:

Preface	3
Ch. I. Classification of Workpieces, Locating Elements and Clamps and Their Characteristics	5
Classification of workpieces	5
Variety of locating elements and preliminary directions of shafts and holes	5
Self adjusting supports	23
Stops	25
Screw-type clamping devices	28
Wedge-type clamps	34
Eccentric-type clamps	35
Eccentrics with double eccentricity	36
Locating flat workpieces	38
Ch. II. Design of Mandrels and Fixtures for Lathes and Cylindrical Grinders Used for Certain Typical Parts	40
Spring-type, eccentric, pneumatic and hydraulic fixtures (actuators) for lathes	40

Card 2/5

Design of Machine-Tool Fixtures (Cont.)

80V/3446

Procedure in designing mandrels and fixtures for turning and cylindrical grinding	46
Plain mandrels	46
Collet-type mandrels	52
Collet-type mandrels for fastening on a hole of small depth	54
Mandrels for fastening on a slotted hole	55
Disc-type mandrels	56
Mandrels with expanding [plastic] walls	59
Roller-type mandrels	71
Ball-type mandrels and chucks	73
Fixtures for fast inner and outer threading	81
Index and adapter-type fixtures for lathes	82
Self-energizing three-cam dog-type chuck	83
Ch. III. Designing Fixtures for Milling, Reciprocating-Tool Cutting, and Surface-Grinding Machines and Quick-Acting Clamping Devices for Them	85
General requirements of milling machine fixtures	85
Universal fixtures for machining of keys	86

Card 3/5

Design of Machine-Tool Fixtures (Cont.)

SOV/3446

Multistation fixtures with re-positioning of workpiece and the expedient choice of sequence of references	88
Fixtures with automatic clamping in continuous milling	90
Milling fixtures with clamping by a double eccentric	93
Turret-type and adapter-type fixtures	95
Use of the permanent pneumatic actuators in milling fixtures	100
Design of milling fixtures using hydro-plastics	106
Characteristic design features of fixtures for surface grinding and sample constructions	112
Ch. IV. Design of Jigs for Drilling and Boring Machines	117
General requirements of drilling and boring jigs	117
Selection of tool guide, construction of guiding bushings and their position relative to the workpiece	118
Universal, quick-acting devices for radial drilling machines and actuating mechanisms for directional change of clamping forces	122
Classification of jigs for drilling machines	124
Superposed jigs	125
Stationary jigs with one and two-sided directions of tool	128
Jigs with shifting jig-plate in the grip	131
Tilting and rotary jigs	139

Card. 4/5

Design of Machine-Tool Fixtures (Cont.)	80V/3446
Adjustable universal jigs	142
Peculiarities in design of boring jigs and their interrelation with the used tool	146
Jigs with anti-friction bearings for accelerated boring	147
Designing of rotary jigs with stationary indexing tables to machine heavy pieces	154
Bibliography	159
Appendixes	160
AVAILABLE: Library of Congress	
Card 5/5	VK/mas 6-23-60

AMIYAN, Vartan Aleksandrovich; ANISIMOV, Yelizar Pinkhasovich; KUZIN, M.I.,
redaktor; KOVALEVA, A.A., redaktor; POLOSINA, A.B., tekhnicheskii
redaktor.

[Manual on subsurface and major repair of oil wells] Spravechnik po
podzemnomu i kapital'nomu remontu skvazhin. Moskva, Gosudarstvennoe
nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1956. 339p.
(Oil wells--Equipment and supplies--Repairing) (MIRA 9:6)

ADONIN, A.N., kand.tekhn.nauk; ALIVERDIZADE, K.S., kand.tekhn.nauk;
 AMIYAN, V.A., kand.tekhn.nauk; ANISIMOV, Ye.P., inzh.; APRESOV,
 K.A., dotsent; BELEN'KIY, V.N., inzh.; BOGDANOV, A.A., kand.
 tekhn.nauk; GORBENKO, L.A., inzh.; DANIELYAN, A.A., inzh.;
 DAKHNOV, V.N., prof.; IVANKOV, R.A., inzh.; KORNEYEV, M.I., inzh.;
 LAVRUSHKO, P.N., inzh.; LMSIK, N.P., inzh.; LOVLYA, S.A., kand.
 tekhn.nauk; LOGINOV, B.G., kand.tekhn.nauk; MININZON, G.M., kand.
 tekhn.nauk; MOLCHANOV, G.V., kand.tekhn.nauk; MURAV'YEV, I.M.,
 prof.; MUSHIN, A.Z., inzh.; OL'SHYANG, D.Ye., inzh.; PODGORNNOV,
 M.I., inzh.; FAYERMAN, I.L., kand.tekhn.nauk; FOKINA, Ye.D., inzh.;
 EFISHEV, A.M., inzh. [deceased]; YERSHOV, P.R., vedushchiy red.;
 MUKHINA, E.A., tekhn.red.

[Reference book on petroleum production] Spravochnik po dobyche
 nefti. Moskva, Gos.nauchno-tekhn.izd-vo nefi. i gorno-toplivnoi
 lit-ry. Vol.2. 1959. 589 p. (MIRA 13:2)
 (Oil fields--Production methods)

ANISIMOV, Ye.V.; SOVETOV, N.M.

Propagation of electromagnetic waves along a band spiral placed
inside a circular waveguide. Zhur.tekh.fiz. 25 no.11:1965-1971
O '55. (Wave guides) (Electric waves) (MLRA 9:1)

AN is imov, 42 V

SUBMITTED: December 7, 1957
AUTHORS: Golubkov, P.V. and Tselming, Sh. Ie.

TITLE: The Second All-Union Conference on Radioelectronics of the Ministry of Higher Education of the USSR (Moscow, 1957)
vsesoyuznaya konferentsiya MVO BSSR po radioelektronike
- News Item

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, No 3, pp 440 - 444 (USSR)

ABSTRACT: The conference took place during September 23 - 29, 1957, at Saratovskiy Gosudarstvennyy Universitet imeni N.G. Chernyshevskogo (Saratov State University imeni N.G. Chernyshevskiy). Apart from the universities, the conference was attended by the representatives of some scientific research institutes of the Soviet and Ukrainian Academies of Science, various industrial establishments and the interested ministries. The arrangement stimulated the discussion and publication of the papers presented and permitted the determination of plans for the future research to be carried out by the universities in the field of radioelectronics.

Card 1/16

A.I. Shityrov proposed (and proved by means of the "cold" reciprocity theorem) an interference method for the investigation of delay systems. The method permits the measurement of electrical non-resonant delays of delay systems. Gives a high accuracy and requires comparatively little effort. The paper by Ye.M. Gershenson was devoted to Means of Ultrasound. Ye.M. Gershenson was devoted to the experimental investigation of an interesting modification of a periodic structure, i.e. a regular waveguide filled with a liquid in which an ultrasonic standing wave was excited. Ye.P. Sazonov described the formation of an investigation of the distribution of electric fields in a number of important delay systems (comb, stub, high-resistance etc.) by means of two methods (probe with high-resistance input) and small perturbing objects. The author also obtained the distributions of longitudinal and transverse electric fields along certain in a number of cases, the are of considerable interest. In a number of cases, the author also measured the coupling impedance. Some of the lectures were devoted to the problems of diffraction which are important in the analysis of the directional patterns of antennas. Here one should mention the papers by Ye.M. Vasil'yev and S.M. Vasyukin, dealing with the excitation of the walls of revolution. The analysis of the oscillations in V-type and toroidal volume resonators and in the papers by V.I. Patrubev and V.M. Sedukhin, respectively. The papers by V.I. Patrubev and V.M. Sedukhin, respectively, dealt with the complex phenomena appearing at the junctions of waveguides. Here, it is necessary to mention the papers: "The Calculation of Junctions of Rectangular and Circular Waveguides" by Ye.Ye. Anisimov and V.M. Kuznetsov; "The Problem of Construction of Certain Waveguide and Matching Devices" by Ye.Ye. Anisimov and V.M. Kuznetsov; "Measurement of the Parameters of the Energy Outputs in U.H.F. Devices by Means of a Special Transformer" by I.A. Pukhovnikova and V.M. Kuznetsov. The behaviour of various substances in electromagnetic fields at U.H.F. was discussed in the papers of O.V. Karpova, V.P. Radin, I.A. Shityrov, A.I. Pilyuchikov, A.L. Levinson, I.S. Sedukhin and A.A. Kuznetsov.

The paper of Ye.G. Pasay and his collaborators described the principle of operation of a molecular clock having an accuracy of 10^{-9} . The results of a theoretical investigation of the molecular radiation in high-frequency fields were given in the papers of V.M. Pavlov, entitled "Radiation of the Molecules in Strong High-Frequency Fields" and "The Spontaneous Radiation of Molecules at Ultra-High Frequencies". In the second of the above papers, the author came to the conclusion that the width of the spectral line of the spontaneous radiation at U.H.F. is finite. The author also proposed a classical analogy for the phenomenon of coherence in the spontaneous radiation.

Card 1/16

S/058/62/000/006/109/136
A062/A101

AUTHORS: Kats, A. M., Anisimov, Ye. V., Sovetov, N. M.

TITLE: Certain dispersion properties of a ribbon helix with a central conductor

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 21, abstract 6Zh142
("Nauchn. yezhegodnik. Saratovsk. un-t. Fiz. fak. i N.-i. in-t
mekhan. i fiz., 1955", Saratov, 1960, 116 - 119)

TEXT: The dispersion equation of a ribbon helix with a central conductor is derived and analyzed. The values of the system parameters, for which the effect of the central conductor is particularly strong, are determined; the appearance of anomalous dispersion regions is noted.

S. A.

[Abstracter's note: Complete translation]

Card 1/1

ANISIMOV, YE.V.

"The studies of dynamics and statics of rectification process."

Report submitted to the Second Intl. Congress of the Intl. Federation
of Automatic Control, Basel, Switzerland, 27-Aug- 4 Sep 1963

1. 14884351 EIC (V/AMC) 32

ACCESSION NR: AP5006013

8/01/1/64/007/006/1223/1226

AUTHOR: Al'tshuler, Yur. D., Anisimov, Yev. V., Rayzin, R. M.

TITLE: Experimental investigation of a traveling-wave strophotron

SOURCE: IVUZ, Radiotekhnika, v. 17, no. 6, 1964, 1223-1226

TOPIC TAGS: strophotron; traveling wave strophotron; electron frequency tuning; frequency pulling

ABSTRACT: The basic characteristics of a traveling-wave strophotron generator with electron frequency tuning were studied experimentally. A nearly parabolic electrostatic potential well was utilized in the tube. Power output was through a coaxial line connected to reflectors at the cathode end of the tube. The traveling-wave mode was affected by matching of the power output and an external load (a power meter) with an absorbing load applied to the collector end of the tube. The latter took the form of a lumped resistance of a value equal to the characteristic impedance of the π system. When the internal matching resistance of the system differed considerably from the characteristic impedance, the bands of electron frequency tuning narrowed sharply, and frequency pulling and spurious oscillations occurred. In addition, magnetic field strength, collector voltage, filament current, and length of the

Cont. 1/2

L 34884-65

ACCESSION NR: AR5006043

Interaction space affected only slightly the frequency characteristics of the gyro-photon. In terms of generated power and band width, the traveling-wave at Compton was found to be fully comparable to (and structurally simpler than) the "O" type backward-wave tube. Original data to figure 1.

(R)

ASSOCIATION: Saratovskiy gosudarstvennyy universitet (Saratov State University)

SUBMITTED: 05 Jun 64

ENCL: 00

SUB CODE: 21

NO REF SOVT: 001

OTHER: 002

ACT PRGS: 20

C-12/P

L 12557-65 BT(a)/BT(1)/RSO(b)-2/DNA(h) Pr-L/P1-L/PJ-L/Pao-L/Feb
 ACCESSION NR: AP4048882

S/0109/64/009/011/1976/1986

AUTHOR: Anisimov, Ye. V.; Al'tshuler, Yu. G.

TITLE: Dispersion characteristics of a ribbon helix placed inside an anisotropic conductance cylinder

SOURCE: Radiotekhnika i elektronika, v. 9, no. 11, 1964, 1976-1986

TOPIC TAGS: dispersion characteristic, TW tube, BW tube

ABSTRACT: Dispersion characteristics are theoretically investigated in two cases: (1) the cylinder is conducting only in a longitudinal direction (longitudinal wires around the helix) and (2) the cylinder is conducting only in a circular direction (closed rings). Theoretical analysis shows the possibility of increasing the delay and of shifting the dispersion curves, either toward longer waves (case 1) or toward shorter waves (case 2), from the position of the corresponding curves for the helix inside a continuous envelope. The use of such anisotropic-

Card 1/2

L 19557-65

ACCESSION NR: AP4048882

conductance cylinders in TW and BW tubes is suggested. Orig. art. has 4 figures and 50 formulas.

ASSOCIATION: none

SUBMITTED: 20Jul62

ENCL: 00

SUB CODE: EC

NO REF SOV: 003

OTHER: 000

Cord 2/2

9,1400

S/194/62/000/006/156/232
D201/D308

AUTHORS:

Kats, M.A., Anisimov, Ye.V., and Sovetov, N.M.

TITLE:

Some dispersion properties of a tape helix with a central conductor

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, 21, abstract 6Zh142 (Nauchn. yezhegodnik. Saratovsk. un-t, Fiz. fak. i N.-i. in-t mekhan. i fiz. 1955, Saratov, 1960, 116-119)

TEXT: The derivation and analysis of the dispersion equation of a tape helix with a central conductor are given. The values of the system parameters are determined for which the effect of central conductor is especially strong; the appearance of regions of anomalous dispersion is pointed out. [Abstracter's note: Complete translation.]

Card 1/1

ANISIMOV , Yu., kand. tekhn. nauk

L. I. Intugin; 1864-1915. Mant. ugl. no.10:29 0 '59 (MIRA 13:3)
(Intugin, Leonid Ivanovich, 1864-1915)

Anisimov, Yu.

ANISIMOV, Yu., преподаватель.

On steel wires to the mountain peak. Tekh. mol. 25 no.3:12-13 Mr '57.
(MLRA 10:6)

1. Kafedra fizkul'tury Moskovskogo gosudarstvennogo universiteta.
2. Trener Sbornogo Soyusa po slalomu.
(Skis and skiing) (Wire-rope transportation)

ANISIMOV, Yu. B.

~~L.I. Litugin's studies on the Denets Basin. Nar. z ist. tekhn.~~
no. 1:5-32 '54. (MLRA 9:4)
(Denets Basin--Geology) (Litugin, Leonid Ivanovich, 1864-1915)

LUTUGIN, Leonid Ivanovich; SHVETS, I.T., redaktor; GAFYEV, A.A., doktor geologo-mineralogicheskikh nauk, professor, redaktor; NOVIK, Ye.O., redaktor; YAVORSKIY, V.I., doktor geologo-mineralogicheskikh nauk, professor, redaktor; ANISIMOV, Yu. A., kandidat tekhnicheskikh nauk, redaktor; KAZANTSSEV, P.A., redaktor; RAKHLINA, N.P., tekhnicheskiiy redaktor.

[Selected works on the geology of the Donets Basin] Izbrannye trudy po geologii Donetskogo basseina. Otv.red.I.T.Shvets. Kiev, Izd-vo Akademii nauk USSR, 1956. 216 p. (MLRA 9:5)

1.Akademik AN USSR (for Shvets).2.Chlen-korrespondent AN USSR (for Novik)
(Donets Basin--Geology)

SOV/112-57-9-18176

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 9, p 1 (USSR)

AUTHOR: Anisimov, Yu. A., Dobrov, G. M.

TITLE: Studies of History of Technology in UkrSSR
(Izucheniye istorii tekhniki v UkrSSR)

PERIODICAL: V sb.: Vopr. istorii yestestvozn. i tekhniki, Nr 1, M., AS USSR,
1956, pp 319-322

ABSTRACT: A report on the First Republic Coordination Conference on the History of Technology, Kiyev, in which 129 representatives from 73 organizations of 12 UkrSSR oblasts took part. The Conference was organized by the Commission on History of Technology, Division of Technical Sciences, AS UkrSSR.

S.M.G.

Card 1/1

ANISIMOV, Yu. A.

Academician Feodosii Nikolaevich Chernyshev; on the centenary
of his birth. Nar. i ist. tekhn. no. 3:11-39 '56. (MLBA 10:6)
(Chernyshev, Feodosii Nikolaevich, 1856-1914)

ANISIMOV, Yu.A.

G.D. Romanovskii; on the 50th anniversary of his death.
Visnyk AN URSR 27 no.7:72-74 J1 '56. (MLRA 9:10)

(Romanovskii, Georgii Danilovich, 1830-1906)

ANISIMOV, Yu.A. [Anisimov, IU.O.]

Development of drilling equipment in Russia. Nar.z ist.tekh.
no.5:15-36 '59. (MIRA 13:5)
(Boring machinery)

KUCHEROV, P.S.; ANISIMOV, Yu.A., kand.tekhn.nauk

"History of Soviet coal cutter-loaders" by G.M.Dobrov.
Reviewed by P.S.Kucherov, IU.A.Anisimov. Ugol' Ukr. 4
no.4:42 Ap '60. (MIRA 13:8)

1. Chlen-korrespondent AN USSR (for Kucherov).
(Coal mining machinery)

ANISIMOV, Yu. O.

History of studying the mineral resources of the U.S.S.R., 1917-
1921. Nar. z ist. tekhn. no.6:3-22 '60. (MIRA 13:11)
(Mines and mineral resources)

ANISIMOV, Yu.A. (Kiyev)

A Ukrainian conference on the history of natural sciences and
technology. Vop.ist.est. i tekhn. no.11:176-177 '61. (MIRA 14:11)
(Technology)

SAMSONOV, G.V. (Kiyev); ANISIMOV, Yu.A. (Kiyev)

Studies in natural history and technology in the Ukraine. Vop.
ist. est. i tekhn. no. 13:184-185 '62. (MIRA 16:5)

(Ukraine---Research)

~~ANISIMOW, Gurdj~~ [Anisimov, Yuriy] kand. nauk tech.; STASZEWSKI,
Jozef [translator]

Aleksander Michalski, geologist, 1855-1904. Kwart hist
nauki i tech 9 no. 1: 43-51 '64.

1. Kierownik Działu Historii Techniki, Zakład Historii
Techniki i Przyrodzawstwa, Akademia Nauk Ukrainskiej
S.R.R. Kijow (for Anisimow).

IVANCHEV, S.S.; YURZHENKO, A.I. [Iurzhenko, O.I.]; ANISIMOV, Yu.N.
[Anisimov, IU.M.]

Infrared spectra of symmetrical diacyl peroxides. Dop. AN URSSR
no.8:1063-1066 '65. (MIRA 18:8)

1. Odesskiy gosudarstvennyy universitet.

YANUS, A.I.; ANISTIMOV, Yu.N.

(general study of symmetrical diacyl peroxides. Zhur. fiz.
khem. 39 no.8:1900-1905 Ag '65. (MIRA 18:9)

1. Odeskay gosudarstvennyy universitet imeni Mechnikova.

ANISIMOV, Yu.N.; IVANCHEV, S.S.; YURZHENKO, A.I.

Quantitative determination of diacyl peroxides by infrared
spectroscopy. Zhur. anal. khim. 21 no. 1:113-118 '66
(MIRA 19:1)

1. Odesskiy gosudarstvennyy universitet imeni Mechnikova.

ANISIMOV, Yu. O., kand. tekhn. nauk; BUGAYEV, O. O. [Buhaiyev, O. O.], inzh.

Under fire. Nauka i zhyttia no. 11:15-16 N '61.

(MIRA 14:12)

ANISIMOV, Ye.C.; LOBEV, G.N. [Lobov, G.M.]

Scientific journal of the Department of Technological Sciences
of the Academy of Sciences of the Ukrainian S.S.R. on the theme
"Problems of the history of technology." Ser. AN URSS no. 8.1972
1123 '62. (RIS 1972)

GUREVICH, S.I., kand. tekhn. nauk, dotsent; GOLIKOV, V.I., kand. tekhn. nauk;
ANISIMOV, Yu.P., inzh.

Increasing efficiency potential of output gears of steering mechanisms.
Trudy MATI no.67:108-118 '64. (MIRA 17:11)

KHRENOV, K.K., akademik, otv. red.; SHVETS', I.T., red.;
SHCHERBAN', O.N., red.; KUCHEROV, P.S., red.; SAMSONOV,
G.V.[Samsonov, H.V.], red.; ANISIMOV, Yu.O., kand. tekhn.
red.; DOBROV, G.M.[Dobrov, H.M.], kand. tekhn. nauk, red.;
MATIYKO, M.M., red.; ORLIK, O.L.[Orlyk, O.L.], red.

[Essays on the history of technology in the Ukraine] Narysy
z istorii tekhniky na Ukraini. Kyiv, Naukova dumka, 1964.
110 p. (MIRA 17:11)

1. Akademiya nauk URSR, Kiev. Sektor istorii tekhniki i
yestestvovaniya. 2. Chlen-korrespondent AN Ukr.SSR (for
Kucherov, Samsonov).

GUREVICH, S.I., kand.tekhn.nauk; GOLIKOV, v.i., kand.tekhn.nauk; ANISIMOV,
Yu.P., inzh.

New stand for wearing testing of gear wheels. Trudy MATI no.53:
100-113 '62. (MIRA 15:6)
(Testing machines)

1-27863-65 B7(1)/B7(1)/B7(1)/B7(1)/B7(1)/B7(1)/B7(1)/B7(1) MJW/JD/EM

ACCESSION NR: AT5001367

S/2536/64/000/060/0106/0118

AUTHOR: Gurevich, S.I. (Candidate of technical sciences, Docent); Golikov, V.I. (Candidate of technical sciences); Antelmov, Yu. P. (Engineer)

TITLE: Increasing the efficiency potential of the output gears of steering mechanisms

SOURCE: Moscow, Aviatsonnyy tekhnologicheskyy institut. Trudy, no. 80, 1984. Povysheniye resursov raboty aviatsonnykh detalей tekhnologicheskimi sredstvami (Increasing the efficiency potential of aircraft parts by technological procedures), 108-118

TOPIC TAGS: gear production, aircraft part, hardness, automatic pilot, gear wear, steering mechanism, wear resistance, steel 18KhGT, steel 38KhMYuA

ABSTRACT: The authors note that in connection with the improved flight characteristics of modern aircraft, a 3000-4000-hour operating potential must be provided for the various assemblies and mechanisms, in particular for steering mechanisms. The results of static tests of the steering mechanism of serial produced automatic pilots show that, because of heavy wear, the mean lifetime of the gears is only 500 hrs, of 12-17% of the required period. For this reason, the basic problem in increasing the operating potential of the steering mechanism is to increase the wear resistance of the rubbing surfaces of

Card //3

L 27063-65

ACCESSION NR: AT5001357

the gear teeth. The present article discusses the results of work aimed at increasing this potential only for the output gears of the steering mechanism, which are the ones subjected to the heaviest load and whose teeth wear is primarily responsible for the sum play or backlash of the transmission system. The principal object of the investigation was the straight-toothed output spur gears of an autopilot steering mechanism. The basic geometrical parameters of the gear pair are given in a special table. Reasons are adduced explaining why profile wear of the teeth is the primary cause of output gear failure in the autopilot steering mechanism. It is also shown that in the engagement of the pair of gears under consideration, the effective speeds are very low in comparison with profile slippage, attesting to the unfavorable operating conditions in the actual engagement. This leads to increased tooth wear — a fact confirmed by the results of the experimental investigations carried out in this work. In order to increase the effective service life and wear-resistance of the output gear pair of the steering mechanism, experiments were conducted on the selection of the best type of steel and its most suitable chemical-thermal treatment. These investigations, the preliminary nature of which is stressed by the authors, led to certain recommendations contained in tabular form in the article. The new technical process advanced in the paper for the processing of the teeth is shown to be relatively productive, stable and capable of providing gears having the required accuracy, surface finish and hardness on the lateral working surfaces.

Card 2/3

L 27863-65

ACCESSION NR: AT5001367

of the teeth. A complete description is given in the article of how the tests were carried out and the results collated. Among the more important conclusions reached by the authors are the following: 1. Satisfactory wear resistance in the gears of a steering mechanism, ensuring an operational potential of 2000-3000 hours, is possible if there is an HRS hardness value for the working surfaces of the engaging teeth of 60 or better; 2. The approximate potential of gears manufactured in accordance with the experimental technology discussed in the article can be taken as equal to 1500-2000 hours (2-3 times that of the existing steering mechanism potential); 3. Steering mechanism gears of high load capability and wear resistance can be produced from types 35KhMYuA and 18KhGT steel, using the chemical-thermal treatment and modern production methods for teeth processing described in this article. Specifically, the initial lateral gap should be reduced to 8-15 angular minutes, and the play in the entire reducer should be within the limits of 13-22 angular minutes. Orig. art. has: 3 tables and 4 figures.

ASSOCIATION: Moskovskiy aviatsionnyy tekhnologicheskyy institut (Moscow aeronautical engineering institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: AC, IE

NO REF SOV: 005

OTHER: 000

Card 3/3

ANISIMOV-SPIRIDONOV, D.D.; BRUK, I.S., otv. red.

[Method of linear branching and some of its applications in optimal planning] Metod lineinykh vetvlenii i nekotorye ego primeneniia v optimal'nom planirovanii. Moskva, Nauka, 1964. 116 p. (MIRA 18:1)

1. Chlen-korrespondent AN SSSR (for bruk).

1ST AND 2ND COLUMNS		PROCESSES AND PROPERTIES INDEX		3RD AND 4TH COLUMNS	
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48
49	50	51	52	53	54
55	56	57	58	59	60
61	62	63	64	65	66
67	68	69	70	71	72
73	74	75	76	77	78
79	80	81	82	83	84
85	86	87	88	89	90
91	92	93	94	95	96
97	98	99	100	101	102
103	104	105	106	107	108
109	110	111	112	113	114
115	116	117	118	119	120
121	122	123	124	125	126
127	128	129	130	131	132
133	134	135	136	137	138
139	140	141	142	143	144
145	146	147	148	149	150
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169	170	171	172	173	174
175	176	177	178	179	180
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211	212	213	214	215	216
217	218	219	220	221	222
223	224	225	226	227	228
229	230	231	232	233	234
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247	248	249	250	251	252
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265	266	267	268	269	270
271	272	273	274	275	276
277	278	279	280	281	282
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289	290	291	292	293	294
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301	302	303	304	305	306
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367	368	369	370	371	372
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379	380	381	382	383	384
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391	392	393	394	395	396
397	398	399	400	401	402
403	404	405	406	407	408
409	410	411	412	413	414
415	416	417	418	419	420
421	422	423	424	425	426
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445	446	447	448	449	450
451	452	453	454	455	456
457	458	459	460	461	462
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469	470	471	472	473	474
475	476	477	478	479	480
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535	536	537	538	539	540
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547	548	549	550	551	552
553	554	555	556	557	558
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571	572	573	574	575	576
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607	608	609	610	611	612
613	614	615	616	617	618
619	620	621	622	623	624
625	626	627	628	629	630
631	632	633	634	635	636
637	638	639	640	641	642
643	644	645	646	647	648
649	650	651	652	653	654
655	656	657	658	659	660
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667	668	669	670	671	672
673	674	675	676	677	678
679	680	681	682	683	684
685	686	687	688	689	690
691	692	693	694	695	696
697	698	699	700	701	702
703	704	705	706	707	708
709	710	711	712	713	714
715	716	717	718	719	720
721	722	723	724	725	726
727	728	729	730	731	732
733	734	735	736	737	738
739	740	741	742	743	744
745	746	747	748	749	750
751	752	753	754	755	756
757	758	759	760	761	762
763	764	765	766	767	768
769	770	771	772	773	774
775	776	777	778	779	780
781	782	783	784	785	786
787	788	789	790	791	792
793	794	795	796	797	798
799	800	801	802	803	804
805	806	807	808	809	810
811	812	813	814	815	816
817	818	819	820	821	822
823	824	825	826	827	828
829	830	831	832	833	834
835	836	837	838	839	840
841	842	843	844	845	846
847	848	849	850	851	852
853	854	855	856	857	858
859	860	861	862	863	864
865	866	867	868	869	870
871	872	873	874	875	876
877	878	879	880	881	882
883	884	885	886	887	888
889	890	891	892	893	894
895	896	897	898	899	900
901	902	903	904	905	906
907	908	909	910	911	912
913	914	915	916	917	918
919	920	921	922	923	924
925	926	927	928	929	930
931	932	933	934	935	936
937	938	939	940	941	942
943	944	945	946	947	948
949	950	951	952	953	954
955	956	957	958	959	960
961	962	963	964	965	966
967	968	969	970	971	972
973	974	975	976	977	978
979	980	981	982	983	984
985	986	987	988	989	990
991	992	993	994	995	996
997	998	999	1000	1001	1002
1003	1004	1005	1006	1007	1008
1009	1010	1011	1012	1013	1014
1015	1016	1017	1018	1019	1020
1021	1022	1023	1024	1025	1026
1027	1028	1029	1030	1031	1032
1033	1034	1035	1036	1037	1038
1039	1040	1041	1042	1043	1044
1045	1046	1047	1048	1049	1050
1051	1052	1053	1054	1055	1056
1057	1058	1059	1060	1061	1062
1063	1064	1065	1066	1067	1068
1069	1070	1071	1072	1073	1074
1075	1076	1077	1078	1079	1080
1081	1082	1083	1084	1085	1086
1087	1088	1089	1090	1091	1092
1093	1094	1095	1096	1097	1098
1099	1100	1101	1102	1103	1104
1105	1106	1107	1108	1109	1110
1111	1112	1113	1114	1115	1116
1117	1118	1119	1120	1121	1122
1123	1124	1125	1126	1127	1128
1129	1130	1131	1132	1133	1134
1135	1136	1137	1138	1139	1140
1141	1142	1143	1144	1145	1146
1147	1148	1149	1150	1151	1152
1153	1154	1155	1156	1157	1158
1159	1160	1161	1162	1163	1164
1165	1166	1167	1168	1169	1170
1171	1172	1173	1174	1175	1176
1177	1178	1179	1180	1181	1182
1183	1184	1185	1186	1187	1188
1189</					

NAME: ...
CATION: Forestry. Dendrology.

ARK. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1448

AUTHOR : Anisimova, A.I.
INST. : State Nikitsk Botanical Garden
TITLE : Trials of Species of Coloneaster Led. in the
Crimea.

ORIG. PUB. : Byul. nauchno-tekhn. inform. Gos. Nikitsk.
botan. sad, 1957, No.3-4, 15-21

ABSTRACT : The findings are reported of the trials of
46 species and 16 varieties of Coloneaster Med.
in the Nikitskaya botanical garden. The sorts
that originated from the central, western and
partly south-western parts of China proved to
be most adapted to local conditions. Best grow-
ing of the evergreen sorts are C. Henryana, C.
glaucophylla, C. pinnata, C. salicifolia with
varieties C. serotina, C. turbinata, C. horizon-
talis with varieties, C. buxifolia vellaea, C.

CAGE: 1/2

COUNTRY : USSR

M-2

CALL SIGN :

APPL. JOUR. : REBiol., No. 17, 1957, No. 29(3)

AUTHOR : Anisimova, A. I.

INST. : Nikitskiy State Botanical Garden

TITLE : Results of Introduction of Arboreal Plants
at the Nikitskiy Botanical Garden over a
Period of 30 Years (1926-1956)

ORIG. PUB. : Tr. Gos. Nikitsk. botan. sada, 1957, 27.
239 pages, illustrated.

ABSTRACT : Over a period of 30 years, during which
harsh climatic conditions prevailed, 996 species and
varieties of arboreal and shrubby plants were tested at
Nikitskiy Garden. These included 7 coniferous and 66 de-
ciduous trees, 205 deciduous species of shrubs, and 126
varieties and forms of same; 52 species of evergreen
shrubs, and 13 varieties and forms; 3 species of evergreen
lianas, and 1 variety; 20 species and 7 varieties and forms
of succulents and xerophytes. Species are listed which
were introduced for the first time in Crimea, and which
are now common in that region. The behavior of all the
tested species is described in detail and their reaction

CARD: 1/2

ANISIMOVA, Aleksandra Ivanovna

[On short wave; a radio operator's notebook] Na krotkoi volne;
zapiski radistki. Moskva, Sovetskii pisatel', 1961. 215 p.
(MIRA 14:11)

(Radio)

ANISIMOVA, A.P., inzh.; ZAKSON, R.I., kand. tekhn. nauk

Welding plastics by vibratory friction. Svar. proizv. no.8:
23-24 Ag '64. (MIRA 17:9)

1. Nauchno-issledovatel'skiy institut tekhnologii traktornogo i
sel'skokhozyaystvennogo mashinostroyeniya.

ANISIMOVA, A. P. Cand. Biolog. Sci.

Dissertation: "Dynamics of the Threshold Sensitivity of Peripheral Vision during Certain Affections of the Nervous System." Inst of Neurology, Acad Med Sci USSR, 23 May 47.

SO: Vechernyaya Moskva, May, 1947 (Project #17836)

ANISIMOVA, A. P.

3. 1949. KHARITONOV, S. A. i ANISIMOVA, A. P. Metod termovoy adaptatsii v klinicheskikh
traumaticheskikh porazheniy nervnoy sistemy. V sb: Nevrologiya vo en. vremeni. T. II.
M., 1949, s. 259-66.

SO: Ietopis' Zhurnal'nykh Statei, Vol. 10, Moskva, 1949

ANISIMOVA, A.P.

~~ANISIMOVA, A.P.~~
Studies on conditioned reflex reaction in man according to the
index of light sensitivity. Biul. eksp. biol. i med. 37 no. 2:3-7
F '54. (MLRA 7:6)

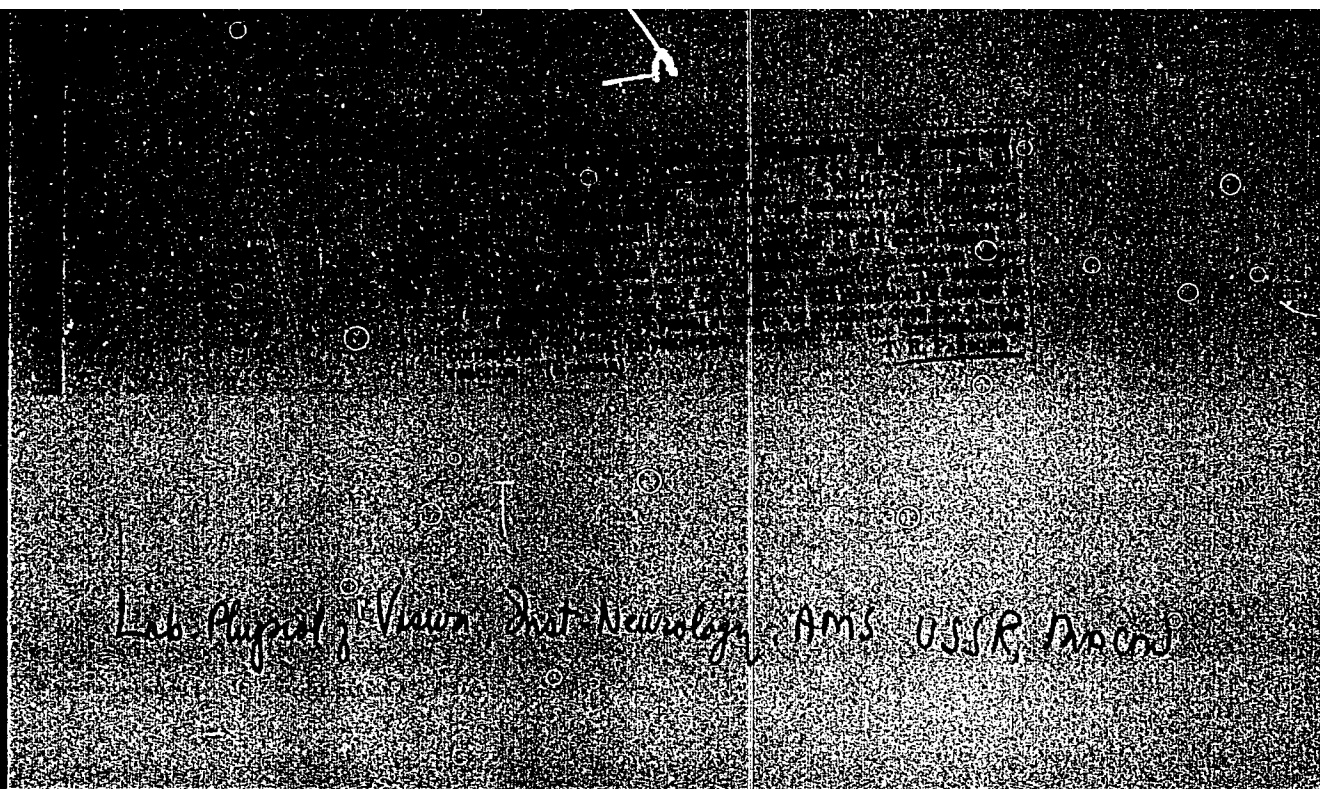
1. Iz laboratorii fiziologii i farmakologii vysshey nervnoy
deyatel'nosti (zav. prof. P.G. Snyakin) Instituta farmakologii,
eksperimental'noy khimioterapii i khimioprofilaktiki dir. prof.
P.G. Snyakin) AMN SSSR, Moskva.

(REFLEX, CONDITIONED,

*light sensitivity)

(LIGHT,

*sensitivity, conditioned reflex)



ANISIMOVA, A.P.

Recent data on the influence of barbanyl, luminal, and chloral hydrate on higher nervous activity. Farm. i toks. 24 no.4:387-394 J1-Ag '61.

(MIRA 14:9)-

1. Laboratoriya fiziologii i patologii organov chuvstv (zav. - prof. P.G.Snyakin) Instituta normal'noy i patologicheskoy fiziologii AMN SSSR.

(NERVOUS SYSTEM)	(AMOBARBITAL)	(PHENOBARBITAL)
(CHLORAL)	(CONDITIONED RESPONSE)	

ANISIMOVA, A.P.

Adjustment of the visual apparatus to natural illumination.
Biul. eksp. biol. i med. 52 no.7:18-20 J1 '61. (MIRA 15:3)

1. Iz laboratorii fiziologii i patologii organov chuvstv
(zav. .. prof. P.G. Snyakin) Instituta normal'noy i patologicheskoy
fiziologii (direktor - deystvitel'nyy chlen AMN SSSR V.V. Parin)
AMN SSSR, Moskva. Predstavlena deystvitel'nyy chlenom AMN SSSR
P.K. Anokhinym.

(VISION)

ANISIMOVA, A.P.

Reflex adjustment of the retina of the one eye to the stimulation of the other eye. Trudy Inst. norm. i pat. fiziol. AMN SSSR 6: 70-72 '62 (MIRA 17:1)

1. Laboratoriya fiziologii i patologii organov chuvstva (zav. - prof. P.G. Snyakin) Instituta normal'noy i patologicheskoy fiziologii AMN SSSR.

ANISIMOVA, Anna Semenovna; BUDA, Faina Martim'yanovna; KOKOREVA,
Anna Aleksandrovna; BORISOVA, G.A., red.; MAMONTOVA, N.N.,
tekhn. red.; EL'KINA, E.M., tekhn. red.

[Receiving, determining the quality, and the simplest organo-
leptic method for analyzing meat, fish and milk products] Pri-
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metody issledovaniia miasnykh, rybnykh i molochnykh tovarov.
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ANISIMOVA, A.S., red.; TAUMIN, E.I., red.

[Problems of dust control in ore dressing plants] Voprosy
bor'by s pyl'iu na obogatitel'nykh fabrikakh; materialy
soveshchaniia. Moskva, In-t gornogo dela, 1963. 118 p.
(MIRA 16:10)

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nykh fabrikakh, 1962.
(Ore dressing) (Dust collectors)

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ANISIMOVA, A.T. (Rostov-na-Donu)

Single-stage bilateral echinococcosis on the lungs. Grad. khir.
6 no.54113-224 S-O '64. (MIRA 78:4)

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Distribution of the isomorphous components during crystallization from aqueous solutions. Report No. 4: Study of the system $(\text{NH}_4)_2\text{Ni}(\text{SO}_4) \cdot 6\text{H}_2\text{O} - (\text{NH}_4)_2\text{Cu}(\text{SO}_4) \cdot 6\text{H}_2\text{O} - \text{H}_2\text{O}$ with the use of radioactive tracers. Study IRN no. 22:8-11²:58.

(MIRA 14:0)

(Nickel compounds)

(Copper compounds)

(Crystallization)

ANISIMOVA, A.V.

Conference on continuous production processes in the plastics
industry. Plast.massy no.7:74 '62. (MIRA 15:7)
(Plastics industry—Congresses)

BOREVSKAYA, B.D., prof.; IVANOVA, L.A.; ANISIMOVA, D.V.

Intradermal novocaine block in pain syndrome in the clinical aspects
of internal diseases. Sov. med. 25 no.9:122-125 S '61.

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1. Iz propedevticheskoy terapevticheskoy kliniki Izhevskogo gosudar-
stvennogo meditsinskogo instituta.

(NOVOCAINE)

(:AIN)

(MEDICINE, INTERNAL)

ANISIMOVA, E.; VACEK, Z.; KOLDOVSKY, O.; HAHN, P.

Histochemical studies on fat metabolism in the mucosa of the small intestine in young rats. Cesk. fysiол. 8 no.5:392 S '59

1. Embryologický ústav KU a Fysiologický ústav ČSAV, Praha.
(LIPIDS, chem.)
(INTESTINE SMALL chem.)

ANISIMOVA, E.S.

Histochemical study on fat embolism in normally developing tailless
amphibia and in amphibia fed with thyroid and thymus gland. Cesk.
morf. 11 no.1:68-84 '63.

1. Embriologicheskiy institut meditsinskogo fakul'teta Karlova
universiteta v Prage, zaveduyushchiy dotsent Ed. Vatsek.
(LIPID METABOLISM) (ESTERASES) (GASTROINTESTINAL SYSTEM)
(LIVER) (THYROID GLAND) (THYMUS GLAND)

ANISIMOVA, G.A.

"The Influence of Furfurol on the Content of Sugar, Cholesterin and Chlorides in the Blood," Farmakol. i Toksikol., 5, No. 1-2, 1942. Biochemical Laboratory of the Institute of Labour Hygiene and Occupational Diseases, Baku, -1942-.

AUTHORS: Klimova, V. A., Anisimova, G. F. 62-58-6-30/37

TITLE: The Simultaneous Determination of Carbon, Hydrogen and Nitrogen
(Odnovremennoye opredeleniye ugleroda, vodoroda i azota)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk,
1958, Nr 6, pp. 791 - 792 (USSR)

ABSTRACT: Besides carbon and hydrogen, nitrogen belongs to those elements
which must be determined most frequently in the analysis of
organic compounds. The authors suggest a new method which they
developed for the purpose of simultaneously determining carbon,
hydrogen and nitrogen by means of the pyrolytic decomposition
of organic substances in the oxygen current (in an empty tube).
Carbon and hydrogen can be determined as before, but nitrogen
is determined according to the sum of the oxides formed and
of elementary nitrogen. There are 1 table and 5 references, 4
of which are Soviet.

Card 1/2

The Simultaneous Determination of Carbon, Hydrogen and Nitrogen 62-50-6-30/37

ASSOCIATION: Institut organicheskoy khimii im. N.D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N.D. Zelinskiy, AS USSR)

SUBMITTED: February 14, 1958

1. Carbon--Determination 2. Hydrogen--Determination 3. Nitrogen
--Determination 4. Organic compounds--Analysis

Card 2/2

KLIMOVA, V.A.; ANISIMOVA, G.F.

Volumetric analysis completion in the microdetermination of carbon and hydrogen after the decomposition of organic substances by their combustion in an oxygen stream. Izv.AN SSSR.Otd.khim.nauk no.11: 2088-2090 N '61. (MIRA 14:11)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Carbon--Analysis) (Hydrogen--Analysis)

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Coulometric microdetermination of hydrogen in organic
compounds. Zhur. anal. khim. 18 no.3:412-413 Mr'63.
(MIRA 17:5)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo
IN SSSR, Moskva.

ANISIMOVA, G.V. (Dnepropetrovsk)

Relationship between the venous, cerebrospinal and arterial pressures in closed brain injuries in the acute phase. Zhur. nevr. i psikh. 63 no.6:853-858 '63. (MIR 12/6)

ANISIMOVA, I.

Labor protection is a matter of national importance. Mest. prom.
i khud. promys. 3 no.8:18-19 Ag '62. (MIRA 15:10)

I. Sekretar' TSentral'nogo komiteta professional'nogo soyuza
rabochikh mestnoy promyshlennosti i kommunal'nogo khozyaystva.

(Labor laws and legislation) (Trade unions)

ANISIMOVA, I.

Ten days in Czechoslovakia. Zhil.-kom.khoz. 11 no.5:31-32
My '61. (MIRA 14:7)

1. Sekretar' Tsentral'nogo komiteta profsoyuza rabochikh
mestnoy promyshlennosti i kommunal'nogo khozyaystva.
(Czechoslovakia--Municipal services)

68887

S/051/60/008/02/013/036

24.3400

AUTHORS: Kozina, G.S., Favorin, V.N. and Anisimova, I.D.
E201/E391
TITLE: Electroluminescence Brightness Waves Under the Conditions
of Simultaneous Action of DC and AC Fields
PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 2,
pp 218 - 223 (USSR)

ABSTRACT: The authors report results of an investigation of the electroluminescence brightness waves of green (ZnS-Cu) and yellow (ZnS-Cu, Mn) phosphors excited simultaneously with AC and DC fields. Phosphor layers, 50-100 μ thick, were prepared by depositing a mixture of the phosphor and a dielectric binder on a glass plate coated with a conducting transparent film (which served as one of the electrodes). A second electrode was prepared by depositing aluminium in vacuo on top of the phosphor layer. DC and AC fields were applied to the phosphor layer using the circuit shown in Figure 1. The current through the layer was measured with an ammeter; brightness waves were recorded by means of a photo-multiplier FEU-27 and two oscillographs connected in parallel: ENO-1 (used to measure the DC component) and

Card1/3

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Electroluminescence Brightness Waves Under the Conditions of
Simultaneous Action of DC and AC Fields

a double-beam instrument 2K0-721 used to compare the brightness with the voltage waves. The AC voltages were either π -shaped pulses or 100 c/s sinusoids. Distortions of the brightness waves of the yellow phosphors (Figures 3-7) on variation of the ratio of the DC and AC components of the applied voltage were found to be related to the conductivity of the phosphors. The conduction current at which distortion of the brightness waves appeared depended on the amplitude of the AC voltage. At low AC voltages distortions of the brightness waves were found even at current densities of $10^{-8} - 10^{-7} \text{ A/cm}^2$ (Figure 5a). When AC voltages were high (Figure 5b) distortions occurred at currents of $10 \text{ } \mu\text{A/cm}^2$ and a rectangular form of the brightness waves was observed at currents greater than $60 \text{ } \mu\text{A/cm}^2$. The observed phenomena are explained by superposition of the

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B104/R201

94,3500

AUTHORS: Favorin, V. N., Kozina, G. S., and Andriyeva, I. D.
TITLE: Study of the electroluminescence characteristics of ZnS-Cu and ZnS-Cu,Mn layers in excitation with constant and pulsed voltage
PERIODICAL: Investiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25, no. 4, 1961, 487-492

TEXT: The present paper has been read at the 9th Conference on Luminescence (Crystal Phosphors), Kiev, June 20-25, 1960. G. S. Kozina discovered in 1958 that ZnS-Cu,Mn luminophore in a solid dielectric medium has a bright luminescence with a Mn band ($\lambda_{\text{max}} = 580 \text{ m}$). Typical characteristics of the yellow luminophore are presented in Fig. 1. The authors conclude from these functions that the characteristics of luminescence of this layer are in organic relationship with those of layer conductivity. The same may be said of the green luminophore. The difference between yellow and green luminophore consists in that the yellow one, which attains a brightness of

Card 1/4

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Study of the...

some millistilbs, has a brightness that is twice as strong as that of a green luminophore. From growth of brightness in trained specimens compared with untrained ones, the authors infer an increase of the effect of voltage upon the crystal. Since, however, the average voltage on the layer is not increased thereby, this is regarded as the consequence of another distribution of the voltage between crystal and layer. An electroluminescent layer may thus be regarded as a nonlinear resistor consisting of two layers with different degree of nonlinearity. The luminescence excited by the passage of current has a brightness depending upon the current itself, the nonlinearity of brightness being essentially dependent upon the nonlinearity of the resistor. Tests with voltage pulses have shown that on a voltage growth the peaks of brightness produced during the pulse front grow more slowly than brightness during the pulse duration. Π -shaped brightness waves are obtained with higher voltages. Finally, luminescence is examined under the simultaneous action of constant and alternating voltage. Two effects are indicated here, both of them leading to an increase of the integral brightness of the layer: amplification of the brightness peaks, and increase of brightness by the addition of constant luminescence. This phenomenon is very strongly marked in the yellow luminophore, but very

Card 2/4

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weakly in the green one. Besides this additive amplification, a distinctly non-additive amplification of the luminescence peaks is also observed. This effect is stronger in the green luminophore than in the yellow one. The additive amplification of brightness in the yellow luminophore is in the range of 10^{-1} - 1 msb at a current density ranging between 10^{-5} and 10^{-3} a/cm². The non-additive amplification of the brightness of the green luminophore appears at about 10^{-2} msb and the corresponding current density range of 10^{-6} - 10^{-5} a/cm². With the aid of constant voltage, the brightness of green layers in an alternating field can be amplified several hundred times, and that of yellow layers more than ten times. F. M. Pekerman is thanked for his difficult work in preparing the luminophores, Z. A. Trapeznikova and her co-workers for supplying the luminophores, L. K. Tikhonova and A. V. Kapitonov for measurements. In the ensuing discussion, G. S. Kozina reports on the bright electroluminescence (first established by L. P. Poskachevaya), observed on enamel with the green luminophore. The enamel layer with high luminophore concentration had a zinc oxide layer for an electrode. The other surface of the enamel layer was exposed to a constant electron current. The latter charged the layer

Card 3/4

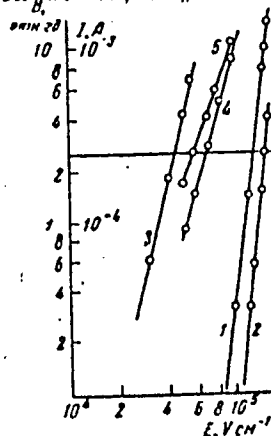
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Study of the...

relative to the zinc oxide base, and a bright luminescence together with layer conductivity was observed at a given polarity of the voltage (plus on the zinc oxide layer). There are 3 figures and 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc. The two references to English-language publications read as follows: Ref. 2: Taylor J. B., Alfrey G. F., Brit. J. Appl. Phys. Suppl., 4, 44 (1959). Ref. 6: Tornton W. A., Phys. Rev. 113, No. 5, 1187 (1959).

Legend to Fig. 1: Brightness (Curves 1, 4) and current (Curves 2, 5) as functions of the field strength for the Zn-Cu,Mn layer after training (1, 2), and prior to training (4, 5). Curve 3 represents the brightness in an alternating field.



Card 4/4

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RAEN(t) AT
ACCESSION NR: AP4043400 8/0181/64/006/008/2555/2556

AUTHOR: Anisimova, I. D.; Yunderman, V. M.; Kulyanov, A. V. 58
65

TITLE: Recombination radiation of a p-n junction in InAs

SOURCE: Fizika tverdogo tela, v. 6, no. 8, 1964, 2555-2556

TOPIC TAGS: indium arsenide, recombination emission, p-n junction, pulsed light, forbidden band, quantum yield

ABSTRACT: Current pulses of 5- μ sec duration and 2500 amp/cm² density were applied in the forward direction to p-n junctions in InAs prepared by diffusing Cd into n-type material with $(5-9) \times 10^{16}$ donors/cm³. The intensity of the emitted recombination radiation increased roughly linearly with the current density but the radiation wavelength was not affected by the current. The energy of the emitted quanta decreased linearly with increase in temperature at the rate of 3.5×10^{-4} eV/deg, in agreement with the temperature de-

Card 1/3

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ACCESSION NR: AP4043400

pendence of the forbidden band width (the temperature range investigated was room temperature to 77K). At 77K, the energy of the recombination quanta was 0.40 eV corresponding to $\lambda = 3.12 \mu$. The height of the potential barrier in the junction decreased more rapidly with temperature than did the forbidden band width. Reverse-polarity current pulses also generated recombination radiation but of considerably lower intensity. "The authors thank V. I. Potapov and F. F. Kharakhov for supplying the material and Z. V. Chishova for preparing the junctions." Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 31Mar64

ATD PRUSS: 3094

ENCL: 01

SUB CODE: 88, NP

NO REF SOV: 000

OTHER: 002

Card 2/3

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ACCESSION NR: AP 4048400

ENCLOSURE 01



Fig. 1. Dependence of radiation-quantum energy on the temperature (left) and dependence of radiation intensity on the current at 77K.

Card 3/3

NIKOLAI, I. K., SMITEN, M. P., FRANK, M. P., KILINICH, Y. A.,
BILICH, V. A.,

"The pathogenesis of the plague infection upon various types of
soul-rats." p. 200

Doplatoye Soveshchaniye po parazitologicheskim problemam i
prirodnoochagovym bolezniam. 22-29 Oktobra 1959 g. (Tenth Conference
on Parasitological Problems and Diseases with Natural Foci 22-29
October 1959), Moscow-Lenin rad, 1959, Academy of Medical Sciences
USSR and Academy of Sciences USSR, No. 1 254pp.

Central Asiatic Anti plague Inst./Alma-Ata